

**System and Method for Loading Software on a
Plurality of Processors**

ABSTRACT

A system and method for loading software on a plurality of processors is presented. A processing unit (PU) retrieves a file from system memory and loads it into its internal memory. The PU extracts a processor type from the file's header which identifies whether the file should execute on the PU or a synergistic processing unit (SPU).
10 If an SPU should execute the file, the PU DMA's the file to the SPU for execution. In one embodiment, the file is a combined file which includes both PU and SPU code. In this embodiment, the PU identifies one or more section headers included in the file which indicates embedded SPU code
15 within the combined file. In this embodiment, the PU extracts the SPU code from the combined file and DMA's the extracted code to an SPU for execution.